

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOGS FILE ☒ WATER SANDS LOCATION INSPECTED SUB. REPORT abd.

DATE FILED 2-14-83

LAND FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. INDIAN I-149-IND-7180

DRILLING APPROVED 2-22-83

SPUDDED IN

COMPLETED PUT TO PRODUCING

INITIAL PRODUCTION

GRAVITY API

GOR

PRODUCING ZONES

TOTAL DEPTH

WELL ELEVATION

DATE ABANDONED *VA. Application Rescinded 9-7-86*

FIELD BOUNDARY BUTTE

UNIT JOA

COUNTY SAN JUAN

WELL NO ENGLISH WN # 38

API NO. 43-037-30871

LOCATION 1370' FT. FROM (N) ~~XX~~ LINE 90' FT. FROM (E) ~~XX~~ LINE SE NE 1/4 -- 1/4 SEC 21

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
43S	22E	21	ARCO OIL & GAS COMPANY				

Requested topo exception
to 124-1 as per telecom
with Walther 2-14-83
Yours

Rec'd 2-22-83
Yours

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER ☐

SINGLE ZONE ☐

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

ARCO Oil and Gas Company, a Division of
Atlantic Richfield

3. ADDRESS OF OPERATOR

P. O. Box 5540, Denver, Colorado 80217

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

1370' FNL & 90' FEL, Section 21-43S-22E

At proposed prod. zone

Approximately the same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 12 miles to Red Mesa to the SE

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.

(Also to nearest drig. unit line, if any)

3910'

16. NO. OF ACRES IN LEASE

7040

17. NO. OF ACRES ASSIGNED TO THIS WELL

10

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

510'

19. PROPOSED DEPTH

1756'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

GR 5456'

22. APPROX. DATE WORK WILL START*

March 1, 1983

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24# K-55 STC	160'	Cmt to surf w/100% excess
7-7/8"	5-1/2"	15.5# K-55 STC	1756'	Cmt to surf w/30% excess

* Note: In our Notice of Staking dated 7/13/82, we referred to the subject well as the English WN #37, this was an error. The correct name for the subject well is the English WN #38. All future correspondence will reflect the correct well name.

Exhibits Attached:

- 1) Certified Location Plat
- 2) Access to Location
- 3) Wells within the English Unit
- 3a) Location of Tank Batteries
- 4) Drillsite Layout as Staked
- 5) Cross section of drill pad
- 6) Rig Equipment
- 7) BOP Diagram
- 8) Archaeological Report

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present production zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured preventer program, if any.

24.

SIGNED

TITLE Dist. Manager of Production

DATE 2-10-83

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

BLM

PO DRAWER 600

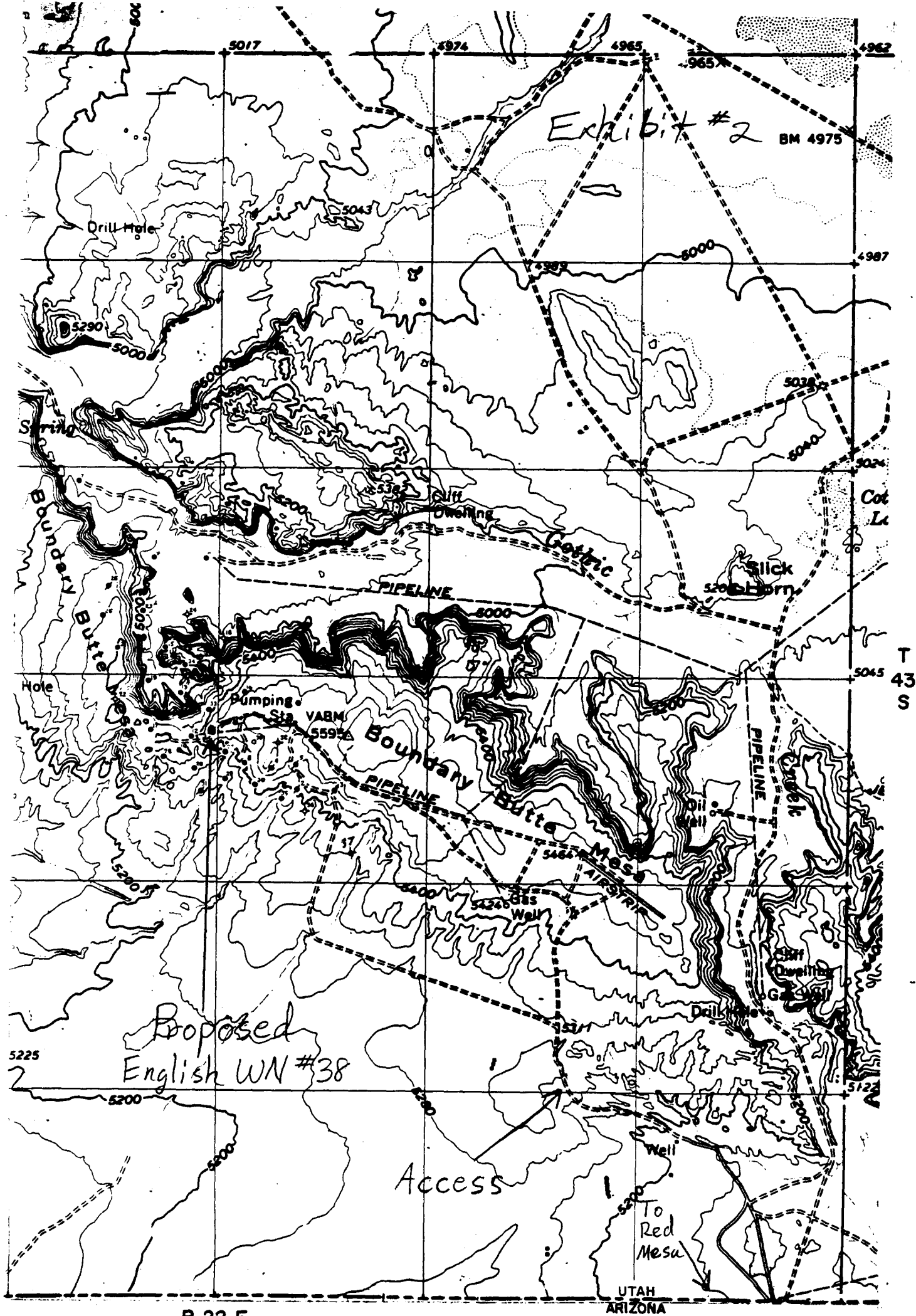
FARMINGTON N.M. 87499

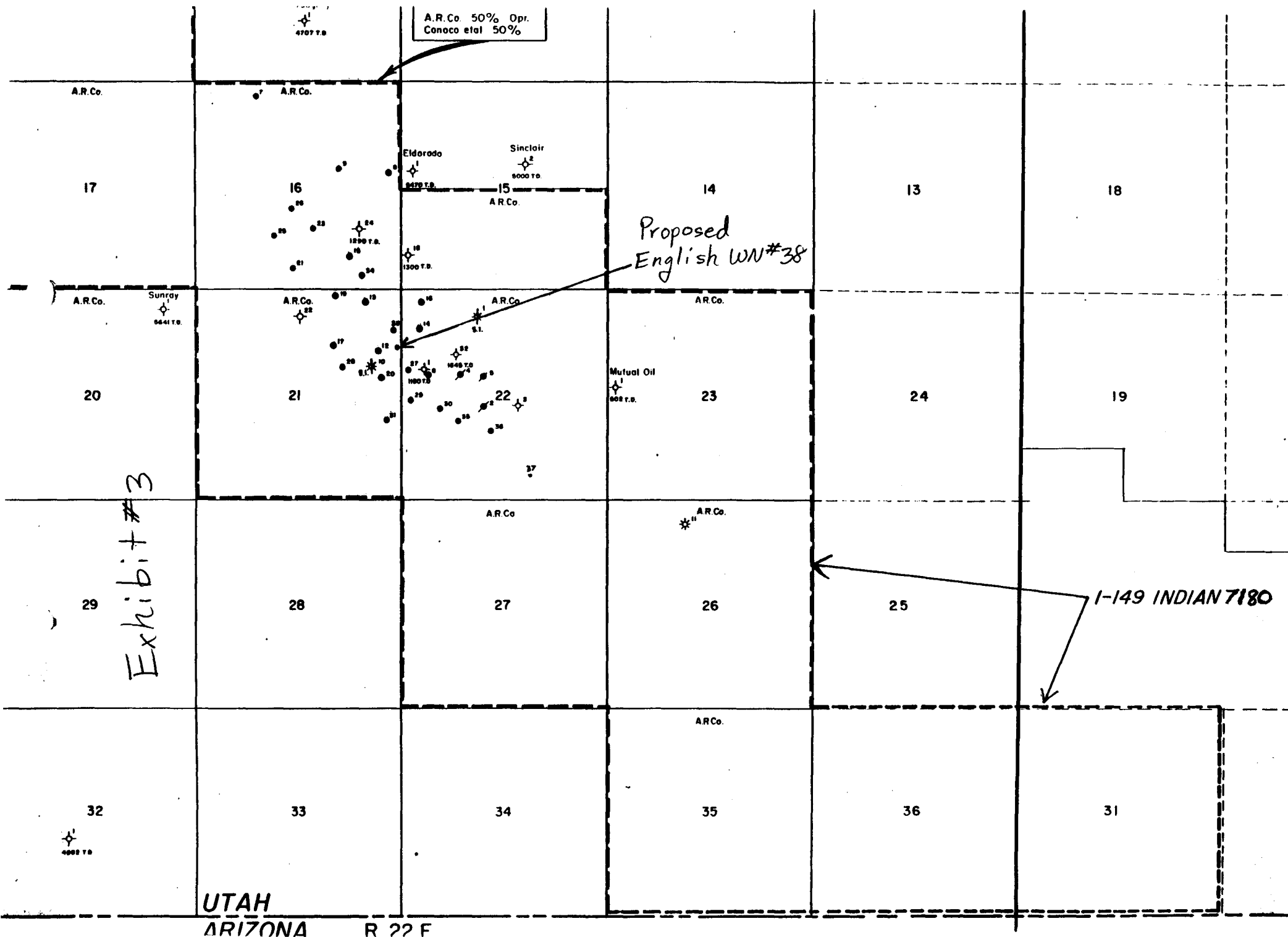
505-325-4572 FARMINGTON OSGPNS

online please

CC

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE 2-22-83
BY: [Signature]





TEN POINT DRILLING PLAN

Attach to APD Form 9-331-C
ARCO Oil and Gas Company
English Unit WN #38
1370' FNL & 90' FEL
Section 21-43S-22E
San Juan County, Utah

1. Surface Geological Formation: Jurassic-Triassic Glen Canyon Group
(Wingate)

2. Estimated Tops of Geological Markers:

Chinle	- 525'
Shinarump	- 1240'
Moenkopi	- 1345'
Coconino	- 1556'
TD	- 1756'
Organ Rock	- 1805'

3. Estimated Tops of Possible Water, Oil, Gas or Minerals:

Coconino - 1556' (oil)

4. Proposed Casing Program:

<u>Casing</u>	<u>Hole Size</u>	<u>Interval</u>	<u>Section Length</u>	<u>Size OD</u>	<u>Weight Grade and Joint</u>	<u>New Used</u>
Conductor	None					
Surface	12-1/4"	0- 160'	160'	8-5/8"	24#,K-55,STC	New
Intermedicate	None					
Production	7-7/8"	160-1756'	1596'	5-1/2"	15.5#,K-55,STC	New
Liner	None					

Cement Program

Conductor	NA
Surface	110 sx Class "B" cmt. Cmt to surface with 100% excess.
Intermediate	NA

4. Proposed Casing Program Cont'd:

Production 165 sx Howco Lite and 100 sx Class "B". Cmt to surface w/30% excess.

Liner NA

5. Control Equipment:

Blowout Preventor - Ram Type, hydraulically or manually operated
 Rams - Two: One blind ram and one pipe ram.
 Series - 900 (3000#WP, 6000#T)
 Pressure test @ 1000 psi prior to drilling out surface csg string. Operational checks to be made daily and on trips.

6. Type and Characteristic of Proposed Drilling Fluids:

<u>Depth</u>	<u>Type</u>	<u>Weight #/gal.</u>	<u>Visc. sec/qt.</u>	<u>Fluid Loss cc</u>
0- 160'	Fresh wtr gel	8.7	35	20+
160- TD	LSND	8.7	35	10-15

7. Auxiliary Equipment:

Kelly cock
 Sub on floor with full opening valve for use in drill pipe when Kelly is not in the string.

8. Testing, Logging and Coring Programs:

At this time no drill stem tests or cores are planned. However, hole conditions or other information obtained while drilling may alter these plans.

Logs: Open Hole	- DIL/SP	TD - Surf Csg 2" & 5" = 100'
	CNL-FDC/GR/Cal	TD - Surf Csg 2" & 5" = 100'
Cased Hole	- GR/CCL	When perforating

At this time it is anticipated that this well will require a frac job of approximately 20,000 gallons of Lease Crude Oil and Sand.

9. Anticipated Abnormal Temperatures, Pressures or Hazards:

There are no abnormal pressures, temperatures or potential hazards in the area. The maximum anticipated pressure is 750 psi at TD. Weight material will be maintained on location and BOP will be pressure tested and kept in good working condition.

10. Anticipated Starting Date and Duration of Operations:

Depending upon District Engineer's approval, the dirt work on this location could be commenced in February, 1983. Move in and rig up (1 day), drilling and completion (9 days). Any delays in obtaining equipment, drilling rig, etc., could considerably extend these estimated days. It is estimated that the earliest this well could be spudded would be March 1, 1983.

13-POINT PLAN SURFACE USE PLAN

Attached to Form 9-331C
ARCO Oil and Gas Company
English WN #38
1370' FNL & 90' FEL
Section 21-43S-22E
San Juan County, Utah

1. Existing Roads:

- A. The proposed location is staked as shown in the Certified Location Plat Exhibit 1.
- B. The location is reached by taking State Highway #504 west out of Shiprock to Teec Nos Pos. Turn onto U. S. Highway #160 west and continue to a point 4 miles west of the Red Mesa Trading Post. Turn right onto the dirt road which should have a sign indicating that the dirt road leads to the English Unit. Continue north on the dirt road to the roads marked on the topographic map. Follow the lease roads shown past Tank Battery #1 to the well location.
- C. Access road is shown in Exhibit 2.
- D. This is a development well.
- E. The existing roads within a one (1) mile radius of this location are on Exhibit 2.
- F. Existing roads will not require any improvement, but in the event of bad weather or other conditions, the roads will be maintained to whatever extent is required.

2. Planned Access Roads: (Only 10' to 50' in length)

- A. The access road will be approximately 18 feet wide.
- B. The grade will be less than 8%.
- C. No turnouts are required.
- D. Drainage will be used as required.
- E. No culverts will be used.
- F. No additional materials will be required.
- G. No cattlguards are required.

3. Location of Existing Wells:

Within the boundaries of the English Unit there have been 37 wells drilled to date. The following is a summary of the status of the wells:

18 Cononio Producers

7 Paradox wells currently shut-in, of which
2 are being vented to heat the 2 tank batteries
within the Unit

12 Dry holes

Also within the Unit boundary there are none of the following:

- 1) Water wells
- 2) Disposal wells
- 3) Drilling wells
- 4) Injection wells
- 5) Monitoring or observation wells

Exhibit 3 & 3a is a map of the English Unit which shows all the wells that have been drilled. Exhibit 3a shows the location of the two tank batteries that are in the Unit.

4. Location of Existing and/or Proposed Facilities:

- A. Within the English Unit the 18 Coconio producers are equipped with pumping units, and the two tank batteries are located in the NW/4 NW/4 of Section 22 and SW/4 NW/4 of Section 16 respectively (See Exhibit #3a).
- B. If the well is productive, we propose to pipe its production to Tank Battery #1 located in the NW/4 of Section 22.
- C. Rehabilitation, whether well is productive or dry, will be made on all unused areas in accordance with B.I.A. stipulations.

5. Location and Type of Water Supply:

- A. We will utilize produced water from Battery #1 located in NW/4 NW/4 of Section 22 (See Exhibit #3a).
- B. All water will be hauled by truck or piped to location.
- C. No wells will be drilled.

6. Construction Materials: No materials will be required.

7. Handling of Waste Materials and Disposal:

- A. Drill cuttings will be buried in the reserve pit.
- B. Drilling fluids will be handled in the reserve pit.
- C. Any fluids produced during drilling test or while making production test will be collected in a test tank. If a test tank is not available during drilling, fluids will be handled in reserve pit. Any spills of oil, gas, salt water or other noxious fluids will be cleaned up and removed. If well is productive, produced water will be disposed of on-site for 30 days only, or 90 days with permission of District Supervisor. After that time application will be made for approval of permanent disposal methods in compliance with NTL-2b.
- D. Toilet facilities will be provided for human waste.
- E. Garbage and non-flammable waste and salts and other chemicals produced during drilling or testing will be handled in trash pit. Flammable waste will be disposed of in burn pit. Drill fluids, water, drilling mud and tailings will be kept in reserve pit. Reserve pit will be fenced on three sides during drilling and the fourth side fenced upon removal of the rig.
- F. After the rig moves out, all materials will be cleaned up and no adverse materials will be left on location. All dangerous open pits will be fenced during drilling and kept closed until such time as the pit is leveled.

8. Ancillary Facilities:

No air strip, camp or other facilities will be built during drilling of this well.

9. Well Site Layout:

- A. Cuts and fill have been drafted to visualize the planned cut across the location spot and the deepest part of the pad (see Exhibit 5).
- B. Exhibit 6 is a plan diagram of the proposed rig and equipment, reserve pit, trash/burn pit, pipe racks and mud tanks. No permanent living facilities are planned. There will be 1 or 2 trailers on location.
- C. Exhibit 4 shows drill pad layout as staked.
- D. The reserve pits will not be lined.

10. Plans for Restoration:

- A. If well is abandoned, site will be restored to original condition as nearly as possible. Backfilling, leveling and contouring are planned as soon as all pits have dried. Waste disposal and spoils materials will be buried or hauled away immediately to an approved sanitary land fill after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.
- B. The soil banked material will be spread over the area. Revegetation will be accomplished by planting mixed grasses as per formula provided by the BIA. Revegetation is recommended for the brief access road area, as well as around drill pad.
- C. Three sides of the reserve pit will be fenced during drilling operations. Prior to rig release, the reserve pit will be fenced on the fourth side to prevent livestock or wildlife from entering; and the fencing will be maintained until leveling and cleanup are accomplished.
- D. If any oil is on the pits and is not immediately removed or burned after operations cease, the pit containing the oil or other adverse substances will be flagged overhead or covered with wire mesh.
- E. The rehabilitation operations will begin immediately after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Planting and revegetation will be done as recommended by surface management agency.

11. Other Information:

- A. Vegetation is Mormon Tea, Indian Rice Grass, Rabbit Brush, Yucca and Brown Snake Weed.
- B. Drainage is to the southwest.
- C. The nearest water supply is approximately 1/4 mile northeast at the #1 Tank Battery (See Exhibit #3a).
- D. The nearest dwellings are approximately 4 miles southeast of location where 3 homes are located.
- E. The nearest town, trading post and school is Red Mesa, 12 miles to the southeast. Montezuma Creek, Utah is approximately 28 miles northeast of location.
- F. The anticipated starting date is March 1, 1983 and will require approximately 5 days to drill and an additional 4 days to complete the well if it is successful.

11. Other Information Cont'd:

- G. An archaeological survey was conducted at the onsite inspection. No inventories of archaeological sites were discovered. Exhibit 8 is a copy of the Archaeology report.
- H. There are 2 pipelines running across the south side of the proposed pad. These lines (a 1-1/2" fuel gas line and a 3-1/2" oil flow line) will be dragged off the southern edge of the pad. The subsurface high pressure gas line (currently shut in) is 15' south of the southern boundary of the pad.
- I. Currently there exists a power line with one power pole running electricity down to our #33 well. This line, running through the center of our proposed location as shown in Exhibit #4, will be rerouted to one of two locations. Either a line will be extended to Well #33 from Well #16 (NE of our proposed pad), or a line will be taken off the main lines close to Well #12 and extended to Well #33. The actual rerouting of the line will be handled by the personnel of our Farmington office.

12. Lessee's or Operator's Representative:

W. A. Walther, Jr.
ARCO Oil and Gas Company
P. O. Box 5540
Denver, Colorado 80217
Bus. Tele: (303) 293-7031
Res. Tele: (303) 575-1342

J. M. McCarthy
ARCO Oil and Gas Company
P. O. Box 5540
Denver, Colorado 80217
Bus. Tele: (303) 293-7127
Res. Tele: (303) 575-1339

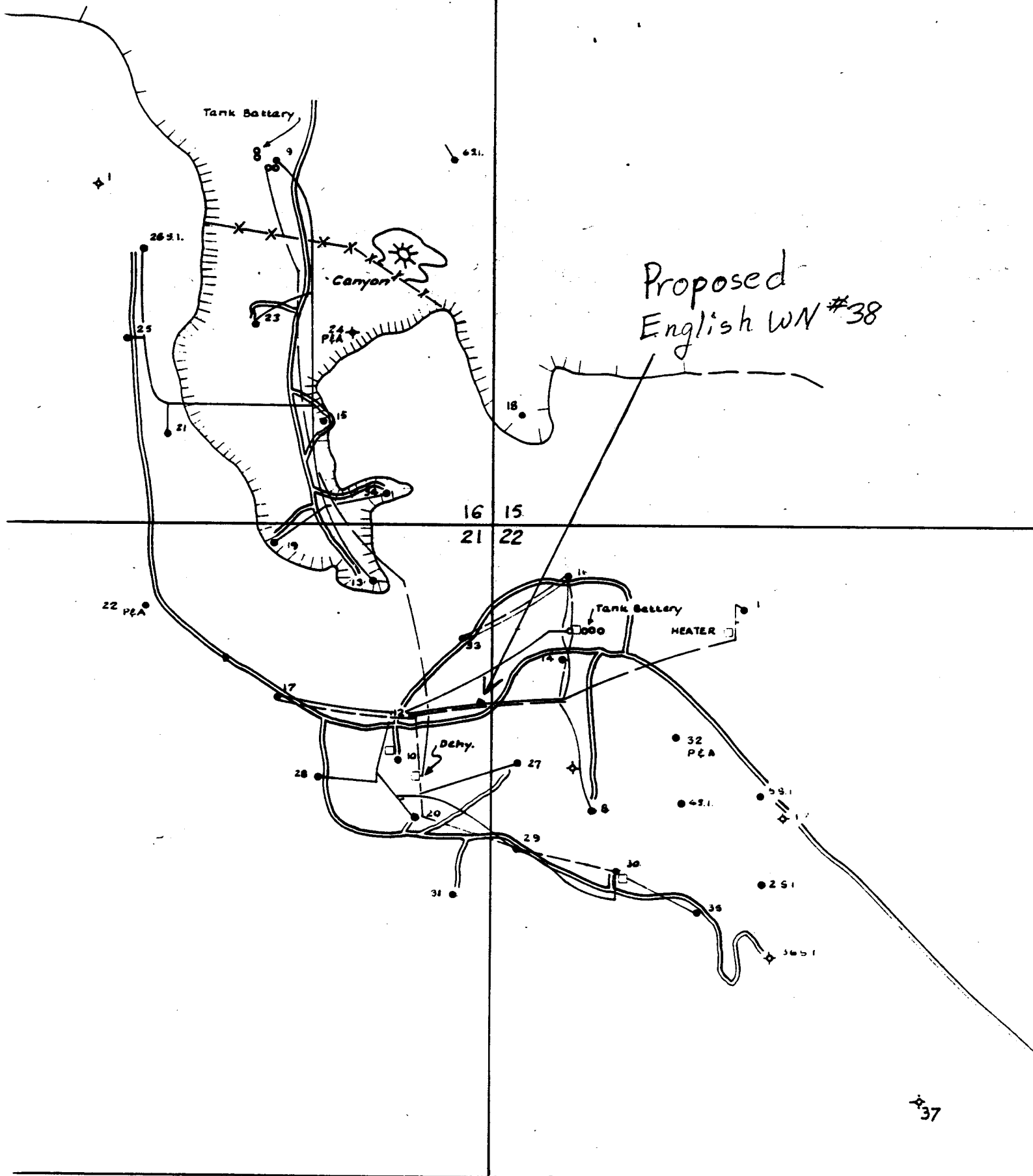
13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by ARCO Oil and Gas Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

2-10-1983
Date

W. A. Walther, Jr.
W. A. Walther, Jr.
District Manager of Production
ARCO Oil and Gas Company

Exhibit 3A

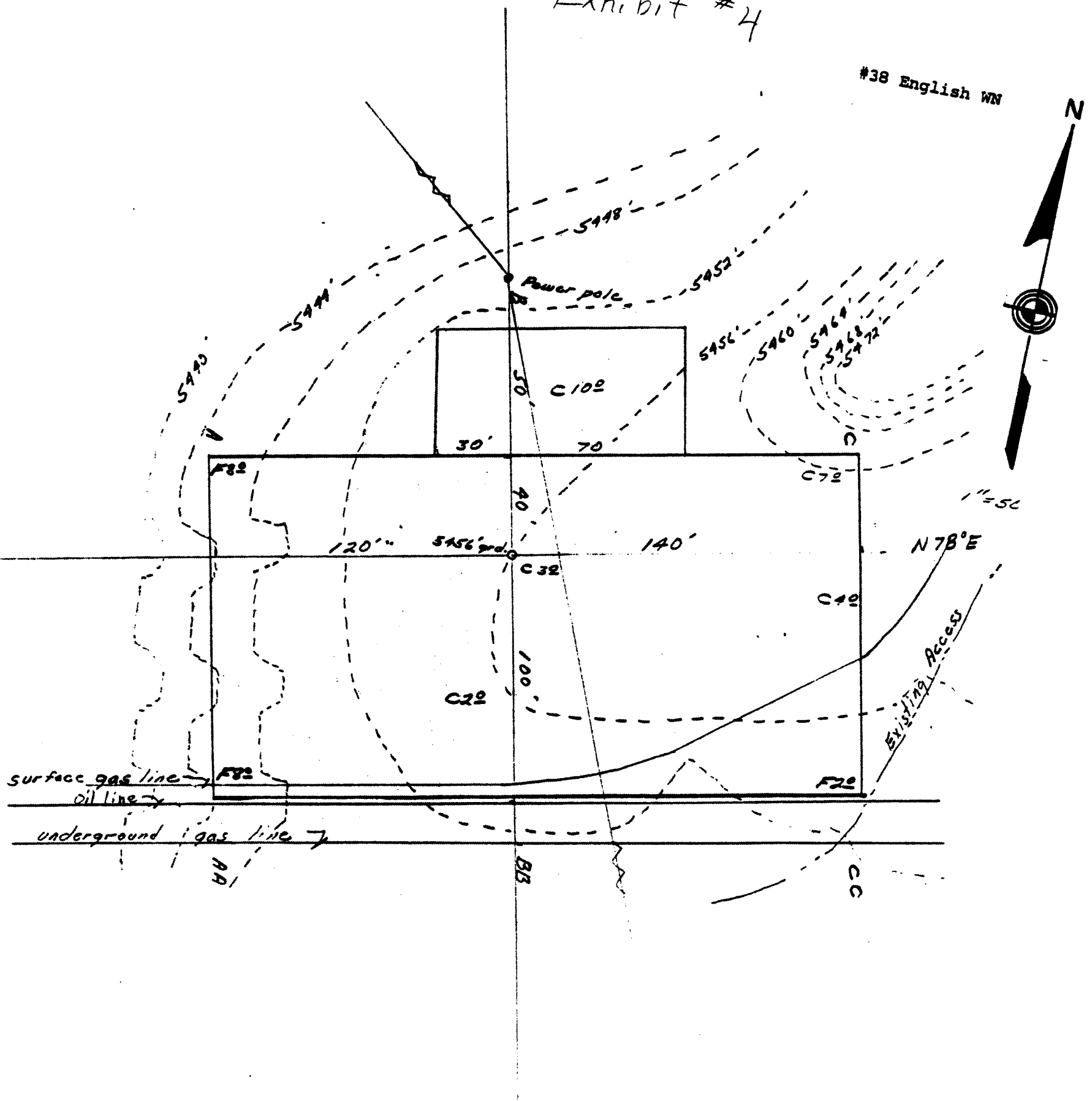




POWERS ELEVATION

Exhibit #4

#38 English WN





POWERS ELEVATION

Well _ 08 English WN

Exhibit #5

OIL WELL ELEVATIONS - LOCATIONS
ENVIRONMENTAL - ARCHAEOLOGICAL SERVICES
800 SOUTH CHERRY STREET, SUITE 1201
DENVER, COLORADO 80222
PHONE NO. 303321-2217

Cut // 4500 cy
Fill: 2700 cy

Scales: 1"=50'H.
1'=20'V.

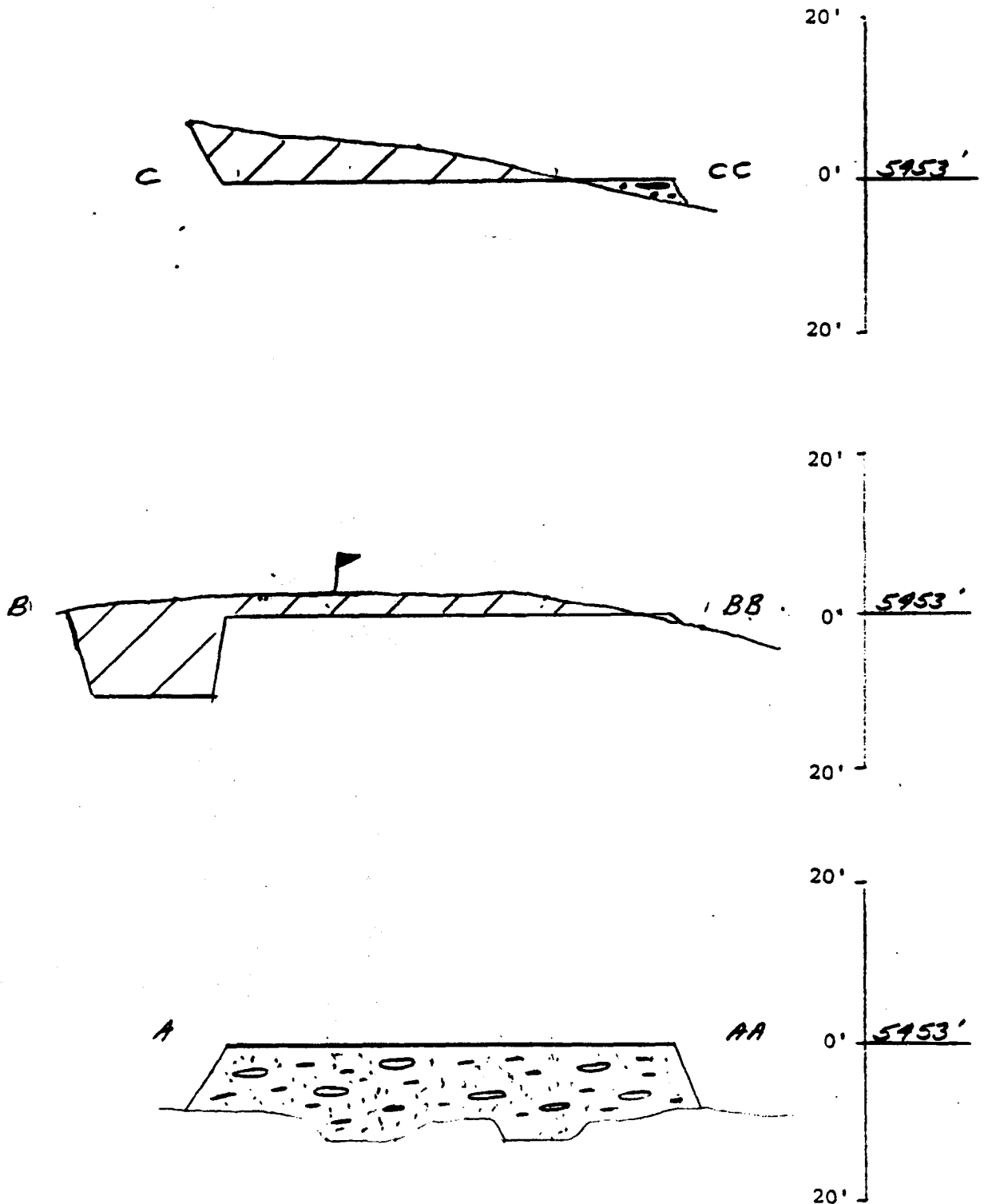
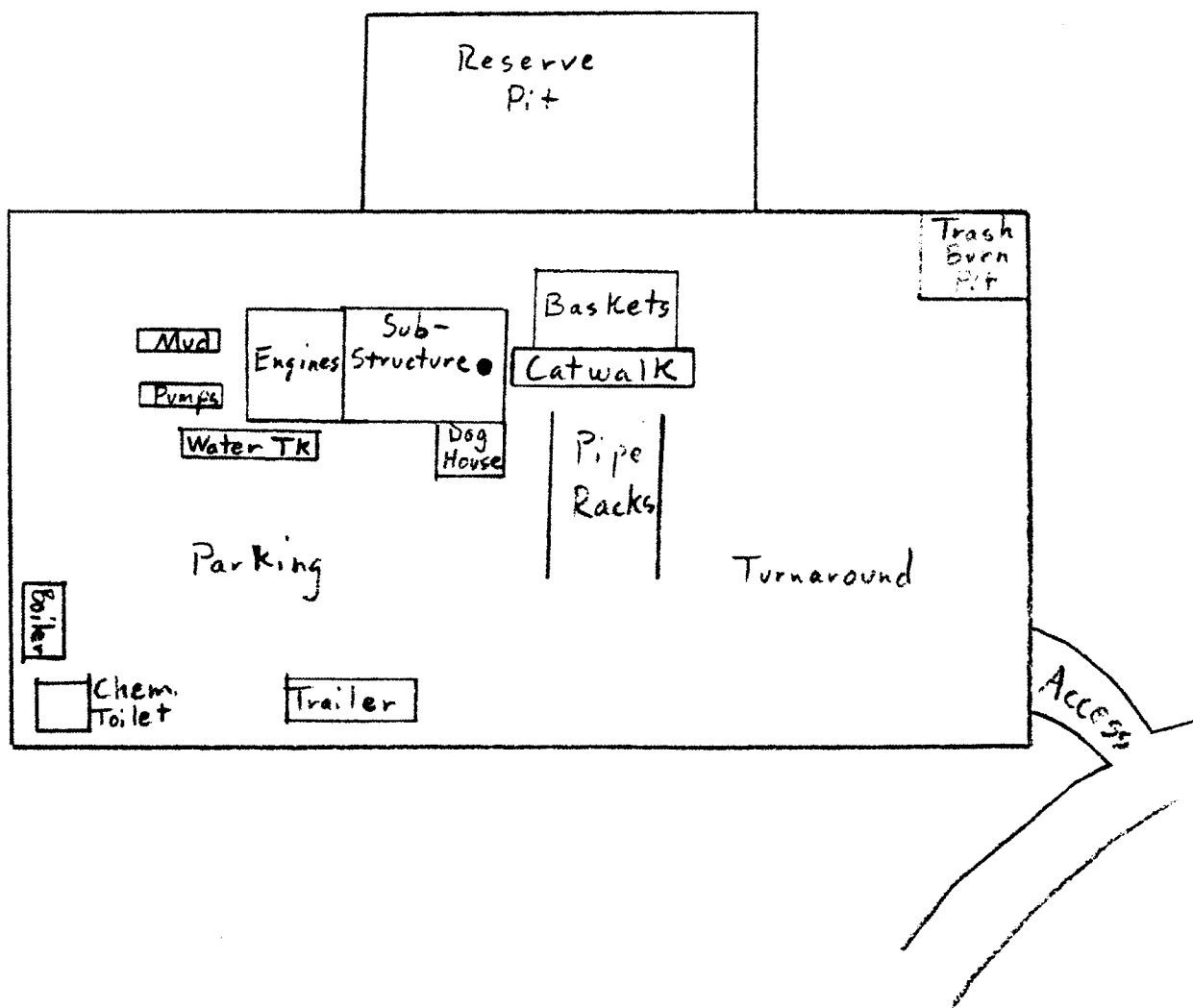
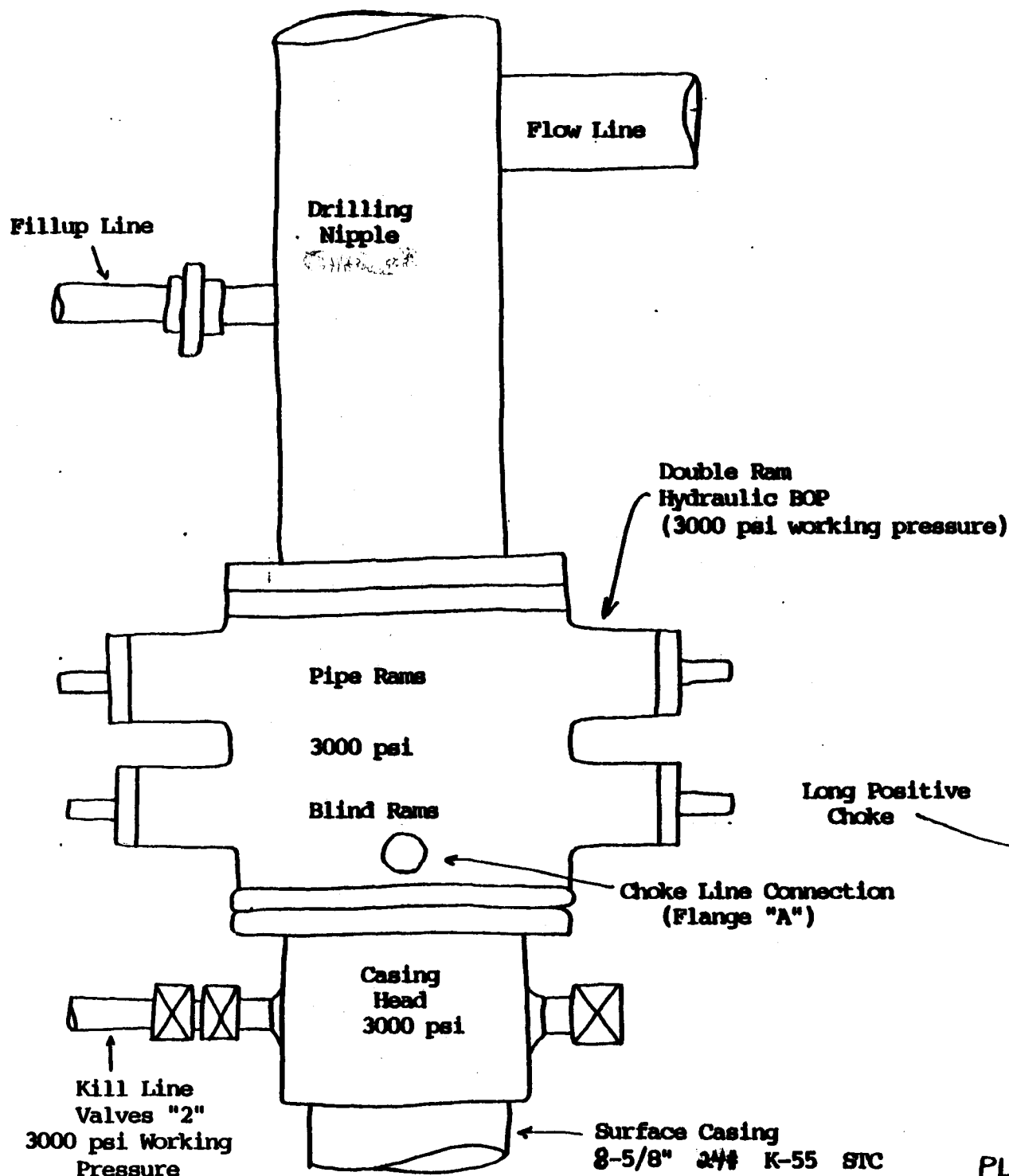


Exhibit #6
Rig
Layout
English WN #38



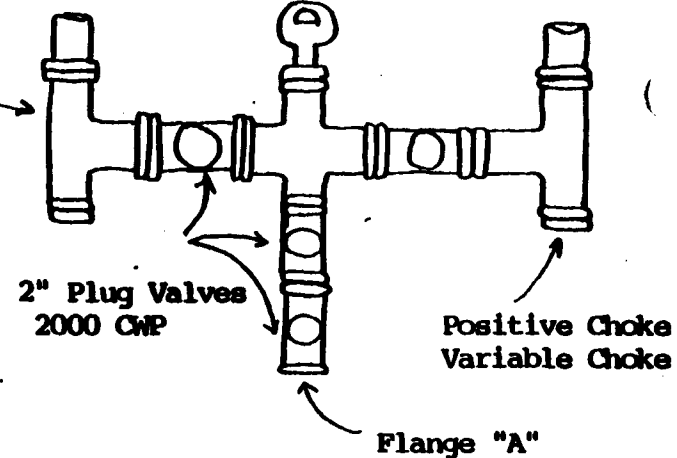
BLOWOUT PREVENTER DIAGRAM

Exhibit 7



Flanged Cross with Pressure Gauge in Outside Opening

Long Positive Choke



PLAN VIEW- CHOKE MANIFOLD

Exhibit 8

Report No. 242

SURVEY OF CULTURAL RESOURCES
FOR ARCO OIL AND GAS COMPANY'S
PROPOSED RELOCATION OF ENGLISH WN NO. 38 WELL SITE
NAVAJO RESERVATION, UTAH

*Also sent to Tom Perry BIA
Window Rock*

Prepared by

Jamie A. Karlson
Senior Staff Archaeologist
ARCHAEOLOGICAL CONSULTANTS
Robert W. Biggs, Principal Investigator
Durango, Colorado 81301

January 20, 1983

Prepared for

ARCO OIL AND GAS COMPANY
Denver, Colorado 80217

Navajo Antiquities Permit No. 1982-17
Federal Antiquities Permit No. 82-AZ/NM/UT-245

SURVEY OF CULTURAL RESOURCES
FOR ARCO OIL AND GAS COMPANY'S
PROPOSED RELOCATION OF ENGLISH WN NO. 38 WELL SITE
NAVAJO RESERVATION, UTAH

A survey of archaeological and historical resources was conducted for ARCO Oil and Gas Company's proposed relocation of English WN No. 38 well site (formerly No. 37). The proposed relocated well site is located 1370 feet FNL and 90 feet FEL in the SE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 21, Township 43 South, Range 22 East (unsurveyed township), Salt Lake Meridian, San Juan County, Utah, UTM center point: 12: 633850E 4100075N (see attached map). The access road, as detailed on the map, is approximately 75 feet long, and crosses portions of the SE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 21 from an existing road (UTM coordinates: 12: 633900E 4100075N). The proposed location and access road are situated on property owned by the Navajo Nation.

On January 19, 1983, Jamie A. Karlson, Senior Staff Archaeologist for Archaeological Consultants, accompanied Peter Tibbitts and Otto Degner of ARCO Oil and Gas Company, and Gerald Huddleston, surveyor for Powers Elevation. The number of the proposed location has been changed from No. 37 to No. 38 by ARCO. The center stake was moved 80 feet to the north toward the rim of Gothic Creek Canyon and the size of the well pad was reduced. The access road remains as originally proposed. The proposed location as altered, lies entirely within the area examined by the archaeologist on July 15 and 20, 1982 (see "SURVEY OF CULTURAL RESOURCES FOR ARCO OIL AND GAS COMPANY'S PROPOSED ENGLISH WN NO. 37 WELL SITE AND ACCESS ROAD, J. Karlson, submitted July 21, 1982).

The inspection was conducted in order to comply with legal provisions contained in the Act for Preservation of American Antiquities of 1906 (34 Stat. 225, 16, U.S.C. 431 et seq.), the National Environmental Policy Act of 1969 (83 Stat. 852, 42, U.S.C. 431 et seq.), and Federal Executive Order 11593.

The survey was conducted under the terms of the Navajo Nation Antiquities Permit No. 1982-17 and Federal Antiquities Permit No. 82-AZ/NM/UT-235.

ENVIRONMENTAL DESCRIPTION

The proposed well site and access road are situated on sandstone cap-rock on the top of Boundary Butte Mesa overlooking Gothic Creek Canyon to the northwest. The flora consists of sparse growths of broom snakeweed, wolfberry, sage, and blackbrush. The soils are exfoliated sand and sandstone fragments.

SURVEY METHODS

Areas extending 25 feet on both sides of the flagged access route and an area 350 feet x 400 feet area around the proposed location were walked and examined for surface evidence of archaeological and historical resources which would be subject to direct impacts by the preparation of the drilling pad, pits, access road, or drilling activities. An approximate total of 3.2 acres was examined in conjunction with this survey, while adjacent areas were given a cursory inspection for cultural resources which might be subject to indirect impacts from construction or drilling activities.

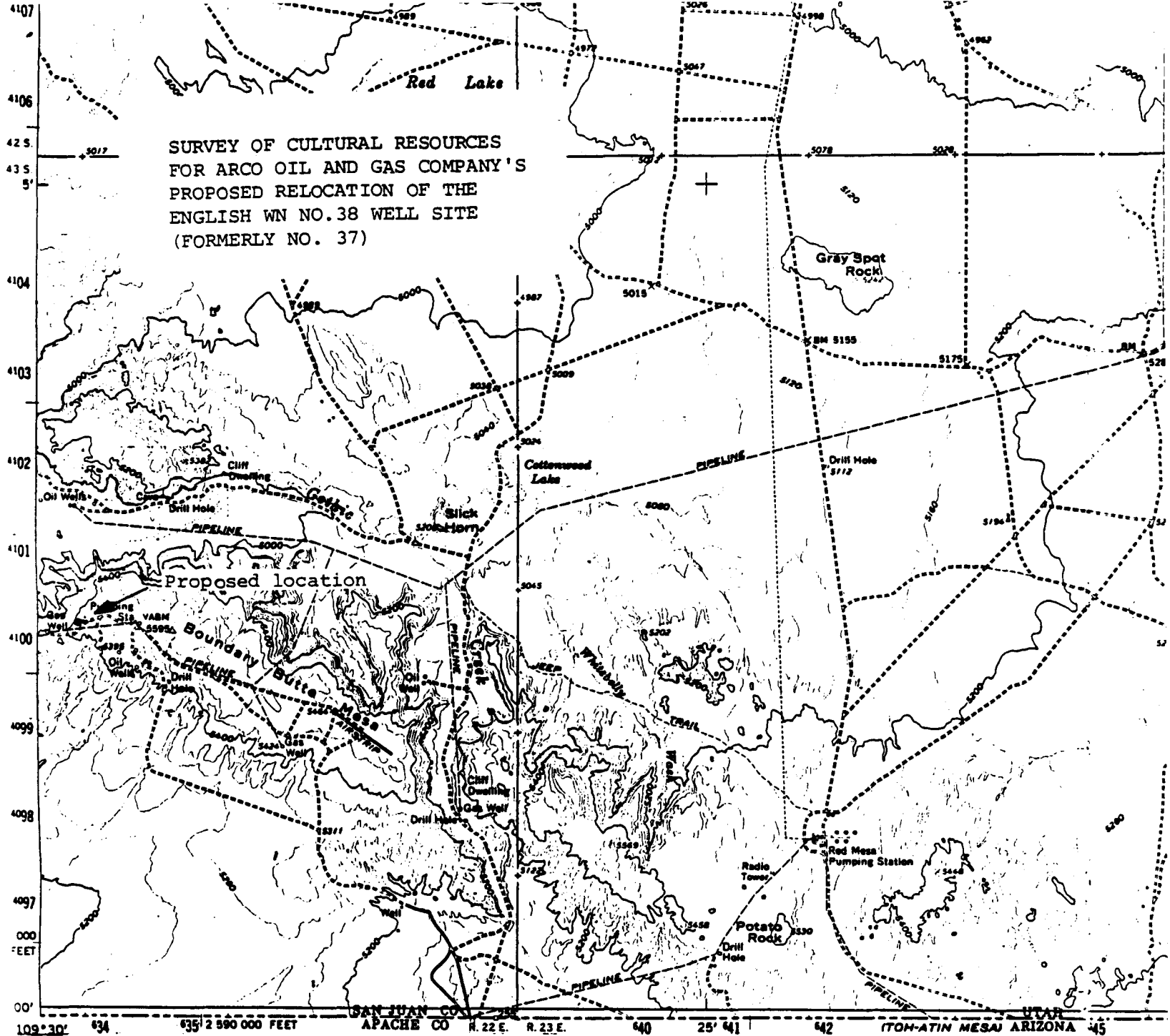
RESULTS OF SURVEY

No surface evidence of archaeological or historical resources was found at the proposed location or along the access route. No evidence of cultural resources in adjacent areas was found which might be subject to indirect impacts from the preparation of the well site or from drilling activities. No sites listed in the National Register of Historic Places are within the proximity of the work area.

RECOMMENDATIONS

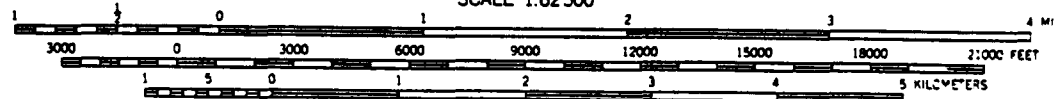
Since the proposed location as altered lies entirely within the area previously examined for cultural resources, no further work is deemed necessary. Should subsurface archaeological materials be encountered during preparation of the well site or construction of the access road, it is recommended that further work be halted in the area of these finds and that the Cultural Resource Management Program office of the Navajo Nation be notified immediately. Further work in the area of these finds should be suspended until the materials are examined and evaluated by an qualified archaeologist.

SURVEY OF CULTURAL RESOURCES
FOR ARCO OIL AND GAS COMPANY'S
PROPOSED RELOCATION OF THE
ENGLISH WN NO.38 WELL SITE
(FORMERLY NO. 37)



Proposed access road

SCALE 1:62500



CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 20-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

WHITE MESA VILLAGE QUADRANGLE
UTAH
15 MINUTE SERIES (TOPOGRAPHIC)

1962

OPERATOR ARCO OIL & GAS COMPANY DATE 2-14-83

WELL NAME ENGLISH INN # 38

SEC SENE 21 T 43S R 22E COUNTY SAN JUAN

43-037-30871
API NUMBER

INDIAN
TYPE OF LEASE

POSTING CHECK OFF:

☐ INDEX

☐ HL

☐

☐ NID

☐ PI

☐

☐ MAP

☐

☐

PROCESSING COMMENTS:

*Indian lease arrangements, with
drilling requirements - the state has
no constitutional justification to deny
this request.*

APPROVAL LETTER:

SPACING: ☐ A-3 UNIT

☒

c-3-a

124-1 11-10-66
CAUSE NO. & DATE

☐ c-3-b

☐

c-3-c

SPECIAL LANGUAGE:

*spacing exception granted as administratively
provided by the cited order.*

☒ RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

☒ AUTHENTICATE LEASE AND OPERATOR INFORMATION

☒ VERIFY ADEQUATE AND PROPER BONDING *INDIAN*

☒ AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

☐ APPLY SPACING CONSIDERATION

☐ ORDER 124-1 11-10-66

☐ UNIT _____

☐ c-3-b

☐ c-3-c

☒ OUTSTANDING OR OVERDUE REPORTS FOR OTHER WELLS OF THE OPERATOR.

☒ IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

ARCO Oil and Gas Company
Rocky Mountain District
Post Office Box 5540
Denver, Colorado 80217
Telephone 303 575 7004

J. G. Bradshaw
Manager
Engineering

February 16, 1983

State of Utah
Natural Resources and Energy
Division of Oil, Gas, and Mining
4241 State Office Building
Salt Lake City, Utah 84114

RECEIVED
FEB 22 1983

DIVISION OF
OIL GAS & MINING

ATTENTION: Holding File in Care of Norm Stout

Re: Exception to Cause #124-1, Dated November 10, 1966

Dear Mr. Stout:

Regarding ARCO's APD for the English WN #38, we are hereby requesting exception to Cause #124-1 of the Utah Oil and Gas Conservation Commission, requiring that the Coconino formation be drilled on 20 acre-spacing and that no unit well shall be located nearer than 660' from any other producing unit well.

This unorthodox location is necessary based on the following geologic and economic conditions. The proposed well will be drilled in an area where there is possibly trapped oil unswept from the natural water drive. There may be a potential for new reserves through the improvement of areal and vertical sweep in this field. Economics for this well are favorable.

There has been no new drilling to the Coconino sandstone in this unit since the late 1960's. We believe the drilling of this well #38 should give us valuable information to evaluate if recovery can indeed be improved by infill drilling which is so often the case in water drive fields.

Page #2
February 16, 1983

The proposed English WN #38 Coconino oil well is within 660' of the English WN #12, English WN #14, English WN #27, and English WN #33. Its location is 1450' FNL and 90' FEL of Section 21, T43S-R22E. The ownership of all oil and gas leases within a radius of 660' of the proposed location of this well and on the entire English Unit is common with the ownership of the oil and gas leases under this proposed location. Such leases are jointly owned by ARCO 50%, Tenneco 12.5%, and Conoco 37.5%. Pursuant to the operating contract dated March 1, 1948, by and between Byrd-Frost, Inc. and Western Natural Gas Company, et.al., as amended, Atlantic Richfield has acquired the operating rights in and to the subject Navajo Indian Tribal lease where subject well is to be located. Atlantic Richfield Company's designation as operator of said lease gives it control of the acreage within a 660' radius of the proposed non-standard location and renders adjoining interest owner approval unnecessary.

Attached are a topographic map showing the proposed location and the other four wells within the 660' radius, and a structure map showing the same.

Sincerely,

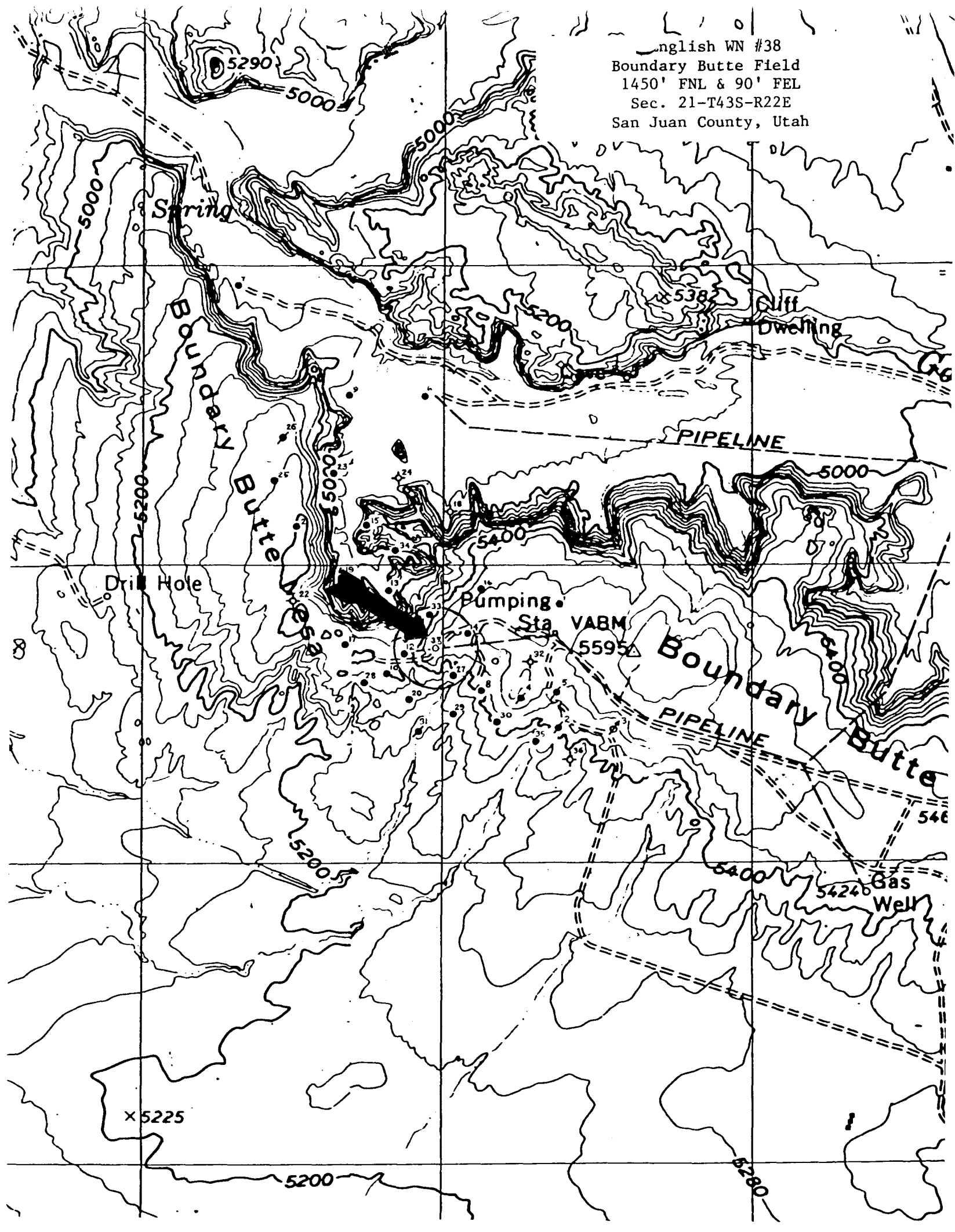
Rodney A. Kiel

Rodney A. Kiel
Operations/Analytical Engineer

RAK:rlr

Attachment

English WN #38
Boundary Butte Field
1450' FNL & 90' FEL
Sec. 21-T43S-R22E
San Juan County, Utah



26

February 22, 1983

Arco Oil and Gas Company
Division of Atlantic Richfield
P. O. Box 5540
Denver, Colorado 80217

RE: Well No. English W/N #38
SENE Sec. 21, T.43S, R.22E
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with the Order issued in Cause No. 124-1 dated November 10, 1966. Spacing exception granted as administratively provided by the cited order.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Engineer
Office: 533-5771
Home: 571-6068

OR

CLYDE B. FREIGHT - Director
Office: 533-5771
Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30871.

Sincerely,



Norman C. Stout
Administrative Assistant

NCS/as
cc: Oil & Gas Operations
BLM - Farmington, N. M.
Bureau of Indian Affairs
Enclosure

ARCO Oil and Gas Company
Rocky Mountain District
717-17th Street
Mailing address: P.O. Box 5540
Denver, Colorado 80217
Telephone 303 575 7000



March 7, 1983

Bureau of Land Management
Oil and Gas Division
Drawer 600
Farmington, New Mexico 87499-0600

Attn: Steve Schaffron
Marcia Petta

RECEIVED
MAR 9 1983

Re: English WN #38 Well
Section 21-T43S-R22E
San Juan County, Utah

DIVISION OF
OIL, GAS & MINING

Attached is our Sundry Notice regarding your phone conversations in the last week of February and on March 4, 1983, with Mr. Peter Tibbitts, ARCO Drilling Engineer. After you have received and inspected this Sundry Notice, please contact Mr. Tibbitts at (303) 293-7064 and he will arrange a meeting at the location, along with the dirt contractors, so that this revised pit design, meeting both your and our requirements, can be explicitly communicated to the dirt contractors. If there are any problems, please call Mr. Tibbitts.

Very truly yours,

W A Walther, Jr.

W. A. Walther, Jr.
Operations Manager

Attch.

cc: Utah Division of Oil, Gas and Mining

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well <input checked="" type="checkbox"/> gas well <input type="checkbox"/> other <input type="checkbox"/>
2. NAME OF OPERATOR ARCO Oil and Gas Company Division of Atlantic Richfield Company
3. ADDRESS OF OPERATOR P. O. Box 5540, Denver, Colorado 80217
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) AT SURFACE: 1370' FNL & 90' FEL AT TOP PROD. INTERVAL: AT TOTAL DEPTH: Approx the same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) CHANGE IN RESERVE PIT

SUBSEQUENT REPORT OF:

RECEIVED
MAR 09 1983

**DIVISION OF
OIL, GAS & MINING**

5. LEASE I-149-IND-7180
6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
7. UNIT AGREEMENT NAME JOA
8. FARM OR LEASE NAME ---
9. WELL NO. English WN #38
10. FIELD OR WILDCAT NAME Boundary Butte
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 21-32S-22E
12. COUNTY OR PARISH San Juan
13. STATE Utah
14. API NO. 43-037-30871
15. ELEVATIONS (SHOW DF, KDB, AND WD) 5456' GR

NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached is a revised Exhibit #4 intended to replace the original Exhibit #4 sent to your office as an attachment to the 13 Pt. Plan. This revised Exhibit #4 proposes a smaller reserve pit, set back an additional 30' from the surface drop off (edge of the bluff) per your request. To satisfy your requirements of lining the reserve pit, a bentonitic clay lining will be placed in the pit, particularly on the north and west sides, of sufficient thickness to prevent leakage of reserve pit fluids. In addition, due to a 60% reduction in the proposed size of the reserve pit, we request authorization to haul any excessive fluid accumulations in the reserve pit to the reserve pit used on the English WN #37 well location at 610' FSL & 1940' FEL, Section 22-T43S-R22E, San Juan County, Utah.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED W. A. Walther, Jr. TITLE Operations Manager DATE 3-7-83

(This space for Federal or State office use)

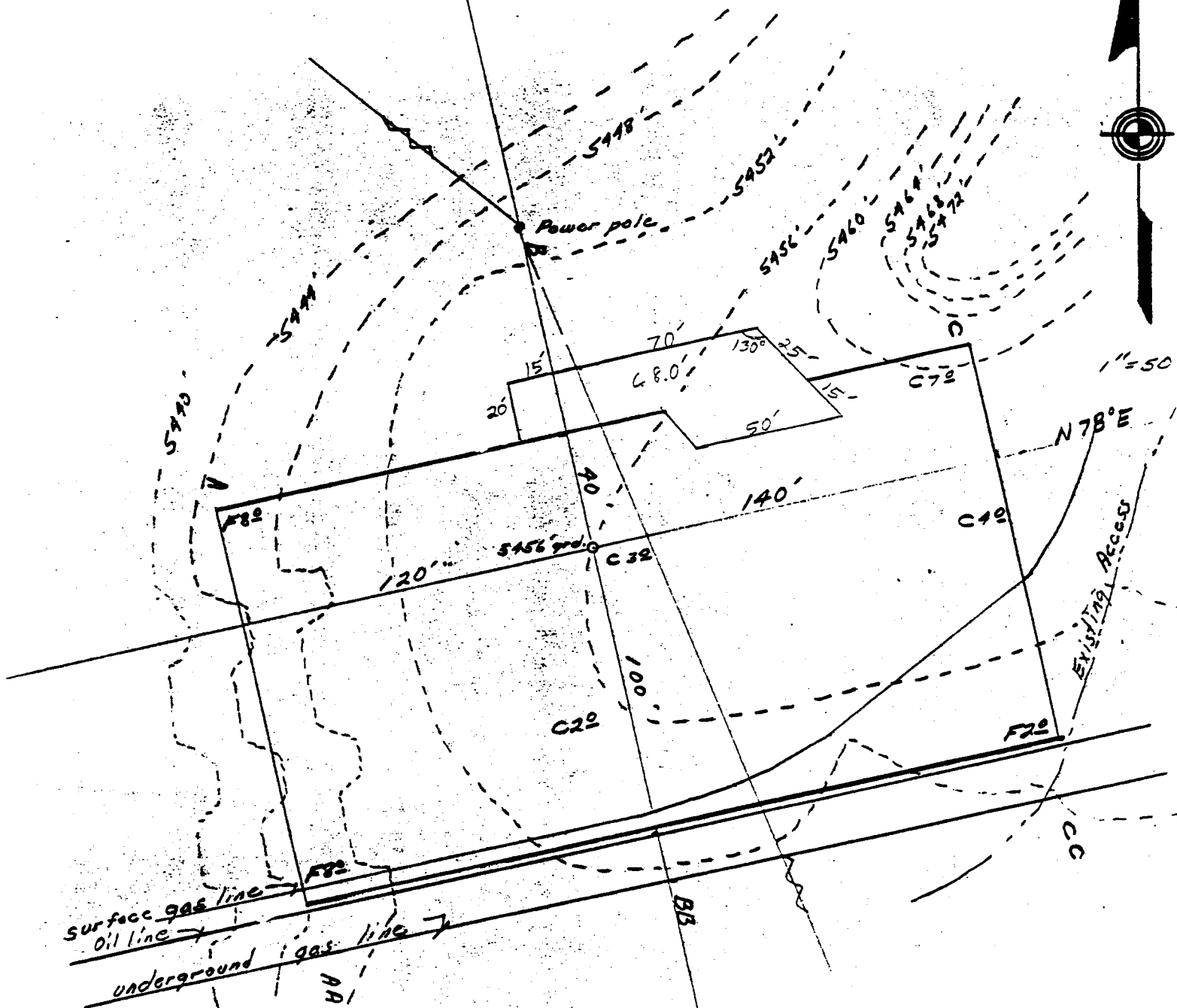
APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:



POWERS ELEVATION

Revised Exhibit #4

#38 English WN





STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

September 12, 1983

ARCO Oil & Gas Company
P. O. Box 5540
Denver, Colorado 80217

Re: Well No. English WN # 38
1370' FNL, 90' FEL
SE NE, Sec. 21, T. 43S, R. 22E.
San Juan County, Utah

Gentlemen:

In reference to the above mentioned well, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill this well, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan to drill this location at a later date, please notify as such.

We will be happy to acknowledge receipt of your response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

Cari Furse

→ Cari Furse
Well Records Specialist

CF/cf

10/4/83 → ARCO ADVISED
THAT THEY WILL
BE SPUDDING THIS
WELL SOON.
THEREFORE THE
2nd NOTICE LETTER
can be delayed.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Moab District
P. O. Box 970
Moab, Utah 84532

IN REPLY REFER TO

3162 (U-065)
(SL-067701)
(U-21129)
(U-04967-C)

RECEIVED

MAR 07 1985

05 MAR 1985

State of Utah
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

DIVISION OF OIL
GAS & MINING

Attention: Claudia L. Jones

Re: Requests on Status of Wells

Gentlemen:

We are replying to your requests for status on the following wells:

- 1) Dugan Production Corporation
Well No. Bluff Unit 15
Sec. 28, T. 39 S., R. 23 E.
Lease SL-067701

The APD was approved December 21, 1984. We show no activity on the above location. Their approval is in effect until December 21, 1985.

- 2) F-L Energy
Well No. Federal 1-20
Sec. 20, T. 15 S., R. 9 E.
Lease U-21129

We show no activity at this location.

- 3) Fortune Oil Company
Well No. Federal 77-31
Sec. 21, T. 15½ S., R. 25 E.
Lease U-04967-C

On Sundry Notice accepted February 2, 1984, the Company advised the subject well remained a location only. They anticipated drilling operations to be conducted during the spring/summer of 84.



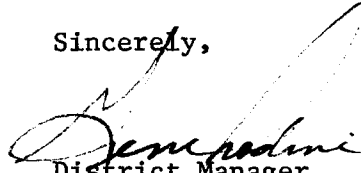
Save Energy and You Serve America!

- 4) ARCO Oil and Gas Company
Well No. English WN-38
Sec. 21, T. 43 S., R. 22 E.
Lease I-149-IND-7180

We are returning your request. This well is handled by the Bureau of Land Management, Farmington Resource Area, Caller Service 4104, Farmington, NM 87499.

If you have any questions, please contact the Branch of Fluid Minerals (801) 259-6111.

Sincerely,



District Manager

Enclosures:
2-Sundry Notices
2-Letters



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

May 1, 1985

Bureau of Land Management
Branch of Fluid Minerals
P O Box 970
Moab, Utah 84532

Attention: Ms. Carol Fruediger

Dear Carol:

Re: Well No. English WN 38 - Sec. 21, T. 43S., R. 22E.,
San Juan County, Utah - Indian Lease No.: I-149-IND-7180
Operator of Record: ARCO Oil & Gas Company

The above referenced well in your district was given state approval to drill February 22, 1983. This office has not received notification of any activity on this location.

Please let me know what action, if any, the Bureau of Land Management is taking on this well.

Thank you for your help in keeping our records up to date.

Sincerely,

Pam Kenna
Well Records Specialist

Enclosure

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

0170S/16



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangert, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

080802

August 7, 1986

Arco Oil and Gas Company
P.O. Box 5540
Denver, Colorado 80217

Gentlemen:

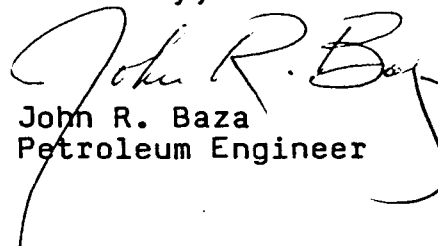
RE: Well No. English WN #38, Sec. 21, T.43S, R.22E,
San Juan County, Utah, API NO. 43-037-30871

Due to excessive time delay in commencing drilling operations, approval to drill the subject well is hereby rescinded, effective one calendar month from the date of this notice.

If it is your intent to proceed with operations on the well, you must submit a request for extension of the approval to drill within the one month grace period. After the grace period, a new Application for Permit to Drill must be filed with this office for approval, prior to future drilling of the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,


John R. Baza
Petroleum Engineer

sb
cc: BLM-Farmington
D. R. Nielson
R. J. Firth
Well file
0278T-91